Appl. No.: 10/797,699

TC/A.U.: 3711 Docket No.: B04-04 Reply to Office Action of March 23, 2005

LISTING OF CLAIMS

1. (Original) A golf ball comprising:

a multi-layer core having:

a center having a Shore C surface hardness of less than about 80 and a compression of less than 70,

at least one rigid outer core layer having a flex modulus greater than 40,000 psi and a Shore C hardness of greater than 80;

an intermediate core layer interposed between the center and the rigid outer core layer comprised of a fully neutralized ionomer, and having a flex modulus less than 20,000 psi and a Shore C hardness less than 60; and

a cover having a Shore D hardness of less than 65.

- (Original) The golf ball according to claim 1, wherein the ball is comprised of a 2. plurality of intermediate core layer with flex moduli that progressively increase.
- (Original) The golf ball according to claim 1, wherein the center has a Shore C 3. hardness of less than 60.
- (Original) The golf ball according to claim 1, wherein at least one rigid outer core 4. layer has a Shore C hardness of greater than 85.
- (Original) The golf ball according to claim 1, wherein the cover has a Shore D 5. hardness of less than 60.
- (Original) The golf ball according to claim 1, wherein the multi-layer core has a 6. diameter greater than 1.60 inches.
- (Original) The golf ball according to claim 1, wherein each core layer has a 7. thickness from about 0.015 to 0.05 inches.

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- (Original) The golf ball according to claim 1, wherein the ionomer comprises a polymer fully neutralized by an organic salt.
- (Original) The golf ball according to claim 8, wherein the organic salt is selected 9. from the group consisting of barium, lithium, sodium, zinc, bismuth, potassium, strontium, magnesium or calcium salts.
- (Original) The golf ball according to claim 1, wherein the ionomer comprises a 10. polymer containing an acid group, a base, and an organic acid or a salt thereof, the base and the organic acid or salt thereof being present in sufficient amounts such that the polymer is fully neutralized.
- 11. (Original) The golf ball according to claim 10, wherein the organic acid is selected from the group consisting of caproic, caprylic, capric, lauric, stearnic, behenic, erucic, oleic, and linoleic acids.
- 12. (Original) A golf ball comprising:
 - a multi-layer core having:
 - a center,
- at least one rigid outer core layer having a flex modulus greater than 40,000 psi and a Shore C hardness of greater than 80,
- an intermediate core layer comprised of a fully neutralized ionomer, and interposed between the center and the rigid outer core layer, having a flex modulus less than 20,000 psi and a Shore C hardness less than 60: and
 - a cover having a Shore D hardness of less than 65.
- (Original) The golf ball according to claim 12, wherein the center has a 13. compression of less than 50.
- (Original) The golf ball according to claim 12, wherein the center has a Shore C 14. hardness of less than 60.

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- (Original) The golf ball according to claim 12, wherein at least one rigid outer core layer has a Shore C hardness of greater than 85.
- (Original) The golf ball according to claim 12, wherein the cover has a Shore D 16. hardness of less than 60.
- (Original) The golf ball according to claim 12, wherein the mult-layer core has a 17. diameter greater than 1.55 inches.
- (Original) The golf ball according to claim 12, wherein the outer core layer has a 18. thickness from about 0.015 to 0.05 inch.
- The golf ball according to claim 12, wherein the center has a specific gravity of 19. less than 1.1 g/cc.
- 20. (Original) The golf ball according to claim 12, wherein at least one of the core layers has a specific gravity of greater than 1.25 g/cc.
- (Original) The golf ball according to claim 20, wherein the at least one of the core 21. layers is the outermost core layer.
- (Original) The golf ball according to claim 12, wherein at least one of the core 22. layers has a specific gravity of greater than 1.50 g/cc.
- (Original) The golf ball according to claim 12, wherein at least one of the core 23. layers has a specific gravity of greater than 1.75 g/cc.
- (Original) The golf ball according to claim 12, wherein the ionomer comprises a 24. polymer fully neutralized by an organic salt.

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25. (Original) The golf ball according to claim 24, wherein the organic salt is selected from the group consisting of barium, lithium, sodium, zinc, bismuth, potassium, strontium, magnesium or calcium salts.

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- 26. (Original) The golf ball according to claim 12, wherein the ionomer comprises a polymer containing an acid group, a base, and an organic acid or a salt thereof, the base and the organic acid or salt thereof being present in sufficient amounts such that the polymer is fully neutralized.
- 27. (Original) The golf ball according to claim 26, wherein the organic acid is selected from the group consisting of caproic, caprylic, capric, lauric, stearnic, behenic, erucic, oleic, and linoleic acids.